

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.116 – EXPEDITED PROCEDURE

Serial Number: 10/634,647

Filing Date: August 5, 2003

Title: HIGH-PERFORMANCE SERVER ARCHITECTURE, METHODS, AND SOFTWARE FOR SPATIAL DATA

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IN THE CLAIMS

Please amend the claims as follows.

1-50. (Canceled)

51. (Canceled)

52. (Currently Amended) ~~The system of claim 51, further comprising:~~ A system for serving map data and map related services over a computer network to two or more clients, the system comprising:

a server associated with at least first and second URLs, wherein the first URL is invokable by at least one of the clients to cause the server to interact with the one client as a first type of map client having a first weight or thickness; and wherein the second URL is invokable by at least another of the clients to cause the server to interact with the other client as second type of map client having a second weight or thickness that differs from the first weight or thickness; and

a map server including:

 a first map service pool having two or more first map service objects or instances for answering requests from the clients for a first map service; and

 a second map service pool having two or more second map service instances for answering requests from the clients for a second map service; and

 means for establishing and maintaining a pool of two or more persistent network connections between the web server and the map server.

53. (Currently Amended) The system of claim 51 claim 52:

wherein the first URL is associated with an applet that comprises at least one executable or compilable map related object for a first map operation and at least one proxy for another executable or compilable map related object for a second map operation; and

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wherein the second URL is associated with a second applet that comprises at least one executable or compilable map related object for the first map operation and at least one executable or compilable map related object for the second map operation

54. (Previously Presented) The system of claim 53, further comprising a wireless client which has invoked the first URL and a non-wireless client which has invoked the second URL.

55. (Previously Presented) The system of claim 54, wherein the wireless client includes a mobile telephone.

56. (Previously Presented) The system of claim 52:
wherein the first map service pool provides geocoding services and the second map service pool provides street routing services; and
wherein the first map service pool provides one of map data access services, geocoding services, street routing services, external map access services, and map image display services.

57. (Previously Presented) The system of claim 56, wherein one or more of the first map service objects or instances is a proxy for a corresponding first map service object or instance within a machine different from that hosting the map server.

58. (Previously Presented) The system of claim 57, further comprising a map database coupled to the map server.

59. (Currently Amended) The system of ~~claim 51~~ claim 52, wherein the one client is an HTML client and the other client is a JAVA client.

60. (Currently Amended) A system for serving map data and map related services over a computer network, the system comprising:
a server associated with at least first and second URLs;

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a wireless client operatively coupled to receive map data from the server after invoking the first

URL; and

a non-wireless client operatively coupled to receive map data from the server after invoking the second URL;

wherein invocation of the first URL causes the server to provide the wireless client at least one proxy object for a map operation; and

wherein invocation of the second URL causes the server to provide the non-wireless client an executable or compilable object for the map operation.

61. (Canceled)

62. (Previously Presented) The system of claim 60, further comprising:
a map server coupled to the server and including:
a first map service pool having two or more first map service objects or instances for answering requests from the clients for a first map service; and
a second map service pool having two or more second map service instances for answering requests from the clients for a second map service; and
means for establishing and maintaining a pool of two or more persistent network connections between the server and the map server.

63. (Previously Presented) The system of claim 62, wherein the wireless client includes a mobile telephone.

64. (Canceled)

65. (Currently Amended) ~~The system of claim 64, A system for serving map data and map related services over a computer network, the system comprising:~~
~~a server for serving map data;~~
~~a wireless client operatively coupled to receive map data from the server; and~~
~~a non-wireless client operatively coupled to receive map data from the server;~~

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wherein the wireless client includes at least one proxy object for a map operation, and the non-wireless client includes an executable or compilable object for the map operation.

66. (Currently Amended) A method of distributing map data through a common server and over a communications network to a wireless client including a mobile telephone and to a non-wireless client, the method comprising:

communicating a first map related applet to the wireless client in response to the wireless client connecting to the common server;

communicating a second map related applet to the non-wireless client in response to the non-wireless client connecting to the common server;

receiving respective first and second requests for map data from the wireless client and the non-wireless clients; and

responding to the respective first and second requests in first and second different ways based on differences in the first and second clients, with responses to the requests including map data from a common map database;

wherein the first map-related applet includes at least one proxy object for a map operation; and the second map-related applet includes an executable or compilable object for the map operation.

67. (Previously Presented) The method of claim 66, wherein the wireless client includes a mobile telephone or a personal digital assistant.

68. (Canceled)

69. (Previously Presented) The method of claim 66, wherein the first map-related applet is referenced in a first property file that is associated with a first URL, and the second map-related applet is referenced in a second property file that is associated with a second URL.

70. (Currently Amended) The method of claim 69[[66]], wherein the first and second URL are associated with the server.